

# MATERIAL SAFETY DATA SHEET

## EM SCIENCE

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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**Manufacturer.....:** EM SCIENCE  
A Division of EM Industries  
P.O. Box 70  
480 Democrat Road  
Gibbstown, N.J. 08027

**Preparation Date.:** 10/6/97

**Information Phone Number.:** 856-423-6300  
**Hours:** Mon. to Fri. 8:30-5  
**Chemtrec Emergency Number:** 800-424-9300  
**Hours:** 24 hrs a day

#### Catalog Number(s):

726X

**Product Name:**  
Safranin Counter Stain

**Synonyms:**  
N/A

**Chemical Family:**  
Solution

**Formula:**  
Solution

**Molecular Weight.:**  
N/A

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

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Component	CAS #	Appr %
Ethyl Alcohol	64-17-5	0-10%
Safranin O	477-73-6	0-1%
Water	7732-18-5	80-99%

Denatured ethyl alcohol contains methanol but its concentration for this product is less than 1%.  
Approx. % as wt/vol

### 3. HAZARDS IDENTIFICATION

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#### EMERGENCY OVERVIEW

MAY BE HARMFUL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN.  
FLAMMABLE LIQUID AND VAPOR.

**Appearance:**

Red solution

#### POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)

**Symptoms of Exposure:**

May be harmful if inhaled, swallowed, or absorbed through the skin.

**Medical Cond. Aggravated by Exposure:**

No information found

**Routes of Entry:**

Inhalation, ingestion or skin contact

**Carcinogenicity:**

The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

### 4. FIRST AID MEASURES

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**Emergency First Aid:**

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

Skin: Immediately flush thoroughly with large amounts of water.

Eyes: Immediately flush thoroughly with water for at least 15 minutes.

Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped.

Ingestion: If conscious, drink water and induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

### 5. FIRE FIGHTING MEASURES

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**Flash Point (F):** 97F

**Flammable Limits LEL (%):** N/A

**Flammable Limits UEL (%):** N/A

**Extinguishing Media:**

Use water, dry chemical, CO<sub>2</sub>, or "alcohol" foam.

#### **Fire Fighting Procedures:**

Wear self-contained breathing apparatus and protective clothing.

#### **Fire & Explosion Hazards:**

Contains flammable component, ethyl alcohol.

### **6. ACCIDENTAL RELEASE MEASURES**

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#### **Spill Response:**

Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under Exposure / Personal Protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards. Contain the release and eliminate its source, if this can be done without risk. Take up and containerize for proper disposal as described under Disposal. Comply with Federal, State, and local regulations on reporting releases. Refer to Regulatory Information for reportable quantity and other regulatory data.

EM SCIENCE recommends Spill-X absorbent agents for various types of spills. Additional information on the Spill-X products can be provided through the EM SCIENCE Technical Service Department (856) 423-6300. The following EM SCIENCE Spill-X absorbent is recommended for this product:

SX0863 Solvent Spill Treatment Kit

### **7. HANDLING AND STORAGE**

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#### **Handling & Storage:**

Keep container closed. Store at controlled room temperature. Do not breathe vapor. Do not get in eyes, on skin, or on clothing.

### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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#### **ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT:**

##### **Ventilation, Respiratory Protection, Protective Clothing, Eye Protection:**

Material should be handled or transferred in an approved fume hood or with adequate ventilation. Protective gloves should be worn to prevent skin contact (Neoprene or equivalent) Safety glasses with side shields should be worn at all times.

##### **Work/Hygenic Practices:**

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

#### **EXPOSURE GUIDELINES**

##### **OSHA – PEL:**

TWA

STEL

CL

Component	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	Skin
Ethyl Alcohol	1000	1900					
Safranin O							
Water							

### ACGIH – TLV:

Component	TWA		STEL		CL		Skin
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
Ethyl Alcohol	1000	1880					
Safranin O							
Water							

If there are no exposure limit numbers listed in the Exposure Guidelines chart, this indicates that no OSHA or ACGIH exposure limits have been established.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Boiling Point (C 760 mmHg) :** N/A

**Melting Point (C) :** N/A

**Specific Gravity (H<sub>2</sub>O = 1) :** N/A

**Vapor Pressure (mm Hg) :** N/A

**Percent Volatile by vol (%) :** N/A

**Vapor Density (Air = 1) :** N/A

**Evaporation Rate (BuAc = 1) :** N/A

**Solubility in Water (%) :** Soluble

**Appearance :**

Red solution

## 10. STABILITY AND REACTIVITY

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**Stability:** Yes

**Hazardous Polymerization:**

Does not occur

**Hazardous Decomposition:**

None indicated

**Conditions to Avoid:**

None indicated

**Materials To Avoid:**

- ( ) Water
- ( ) Acids
- ( ) Bases
- ( ) Corrosives
- ( ) Oxidizers
- (X) Other: none indicated

**11. TOXICOLOGICAL INFORMATION**

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**Toxicity Data**

None established

**Toxicological Findings:**

None

Cited in Registry of Toxic Effects of Chemical Substances (RTECS)

**12. DISPOSAL CONSIDERATIONS**

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**EPA Waste Numbers:** D001

**Treatment:**

Incineration, fuels blending or recycle. Contact your local permitted waste disposal site (TSD) for permissible treatment sites.

ALWAYS CONTACT A PERMITTED WASTE DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

**13. TRANSPORT INFORMATION**

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**DOT Proper Shipping Name:**

non-regulated (per 49CFR173.150(e))

**DOT ID Number :**

none(per 49CFR173.150(e))

**14. REGULATORY INFORMATION**

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**TSCA Statement:**

This product is a "Mixture". The CAS numbers of all components are listed on the TSCA Inventory.

Component	SARA EHS (302)	SARA EHS TPQ (lbs)	CERCLA RQ (lbs)
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Ethyl Alcohol

Safranin O

Water

Component	OSHA Floor List	SARA 313	DeMinimis for SARA 313 (%)
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Ethyl Alcohol

Y

Safranin O

Water

If there is no information listed on the regulatory information chart, this indicates that the chemical is not covered by the specific regulation listed.

## 15. OTHER INFORMATION

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### Comments:

None

### NFPA Hazard Ratings:

Health : 1  
 Flammability : 2  
 Reactivity : 0  
 Special Hazards :

**Revision History:** 10/6/97

| = Revised Section

N/A = Not Available

N/E = None Established

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